

Part No.: TURTBG-08253S90SMD

90 Degree 3dB Bridge

电气特性 Electrical:

工作频率 Frequency Range:	800-2500MHz
耦合度Coupling :	3dB
插入损耗 Insertion Loss:	0.35dB Max
隔离度Isolation:	-18.0dB Min
驻波 VSWR:	1.32:1 Max
幅度平衡 Amplitude Balance:	$\pm 0.95\text{dB max}$
相位平衡Phase Balance:	$90 \pm 2.0 \text{ degree}$
耐功率 Power Handling:	400 Watt
阻抗 Impedance:	50 OHMS

机械特性 Mechanical:

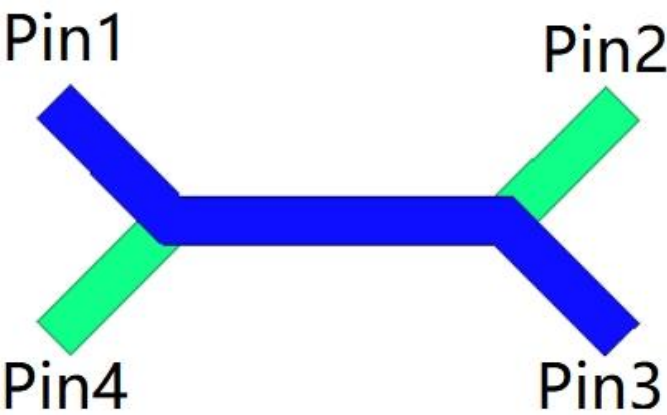
温度范围Temperature Range:	$-55^{\circ} \text{ C} - +105^{\circ} \text{ C}$
大小Size:	34mm*13mm
厚度Thickness:	4.5mm
相对湿度Relative Humidity:	0 ~ 90%

外形尺寸Outline Drawing:

Unit: mm(Inches)

端口配置表 Port Configuration Table:

Hybrid Coupler Pin Configuration



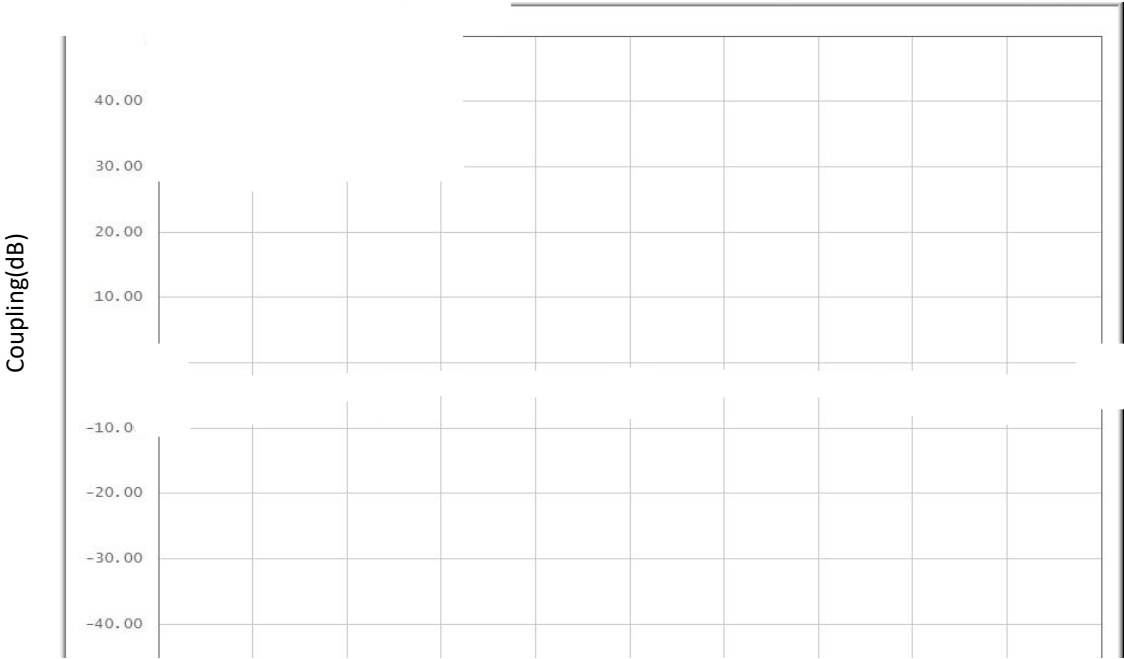
Configuration	Pin1	Pin2	Pin3	Pin4
Splitter	Input	Isolated	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$
Splitter	Isolated	Input	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$
Splitter	$-3\text{dB} < \theta - 90^\circ$	$-3\text{dB} < \theta$	Input	Isolated
Splitter	$-3\text{dB} < \theta$	$-3\text{dB} < \theta - 90^\circ$	Isolated	Input
Combiner	$A < \theta - 90^\circ$	$A < \theta$	Isolated	Output
Combiner	$A < \theta$	$A < \theta - 90^\circ$	Output	Isolated
Combiner	Isolated	Output	$A < \theta - 90^\circ$	$A < \theta$
Combiner	Output	Isolated	$A < \theta$	$A < \theta - 90^\circ$

Typical Performance Data

Frequency		MHz	800	1000	1200	1400	1650	1900	2100	2300	2500
Coupling		dB	-4.16	-3.32	-2.82	-2.55	-2.52	-2.57	-2.80	-3.29	-4.11
Transmission		dB	-2.36	-2.92	-3.38	-3.73	-4.02	-3.89	-3.61	-3.18	-2.60
Insertion Loss		dB	-0.25	-0.11	-0.09	-0.13	-0.25	-0.22	-0.20	-0.23	-0.33
Isolation		dB	-19.20	-19.44	-20.07	-21.01	-22.80	-25.54	-29.50	-40.74	-33.34
Phase		degree	89.13	89.83	90.49	91.00	91.18	91.19	91.13	90.93	91.02
Return Loss	Input	dB	1.29	1.25	1.22	1.19	1.17	1.15	1.12	1.09	1.11
	Coupler	dB	1.25	1.10	1.05	1.05	1.06	1.07	1.07	1.05	1.07
	Transmission	dB	1.30	1.24	1.19	1.15	1.12	1.09	1.05	1.02	1.07
	Isolated	dB	1.24	1.20	1.16	1.12	1.09	1.09	1.09	1.13	1.20

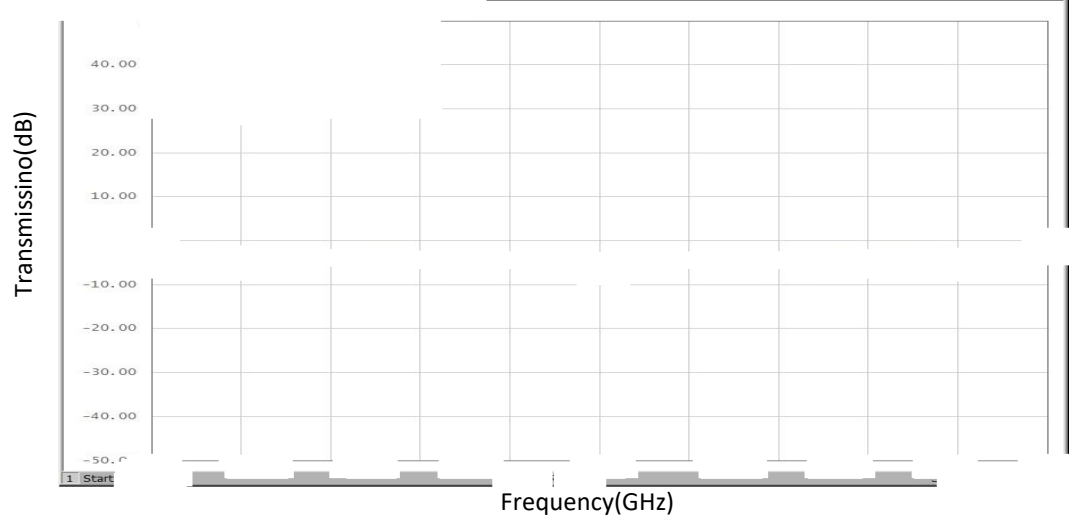
典型曲线 Typical Performance Data:

Coupling vs Frequency

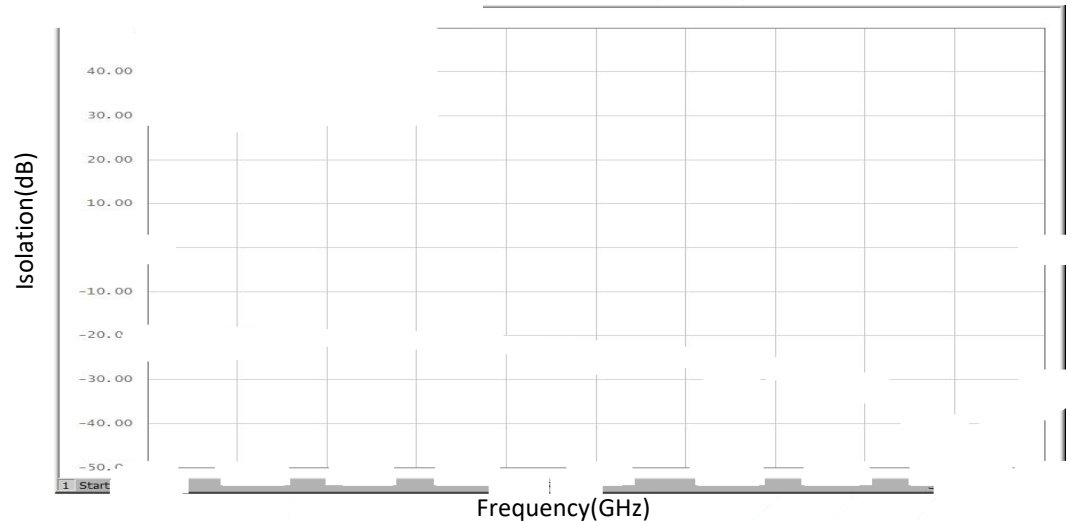


典型曲线 Typical Performance Data:

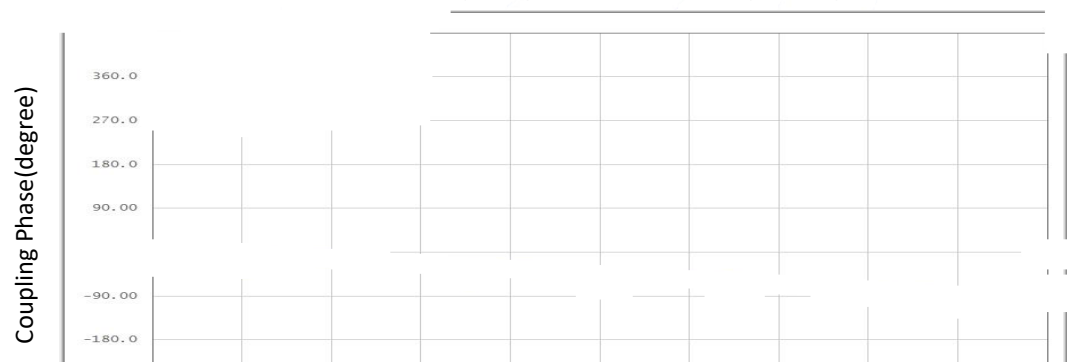
Transmission vs Frequency



Isolation vs Frequency

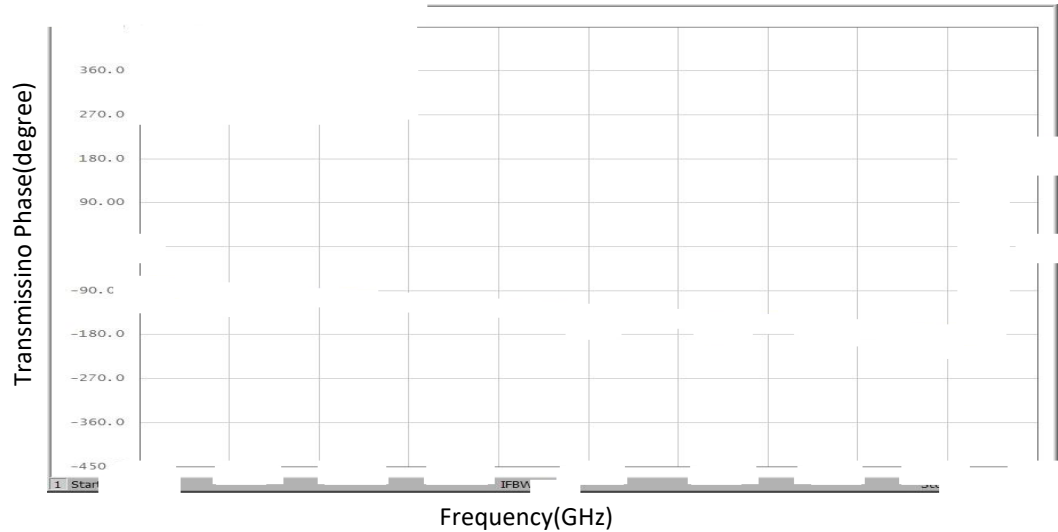


Coupling Phase vs Frequency

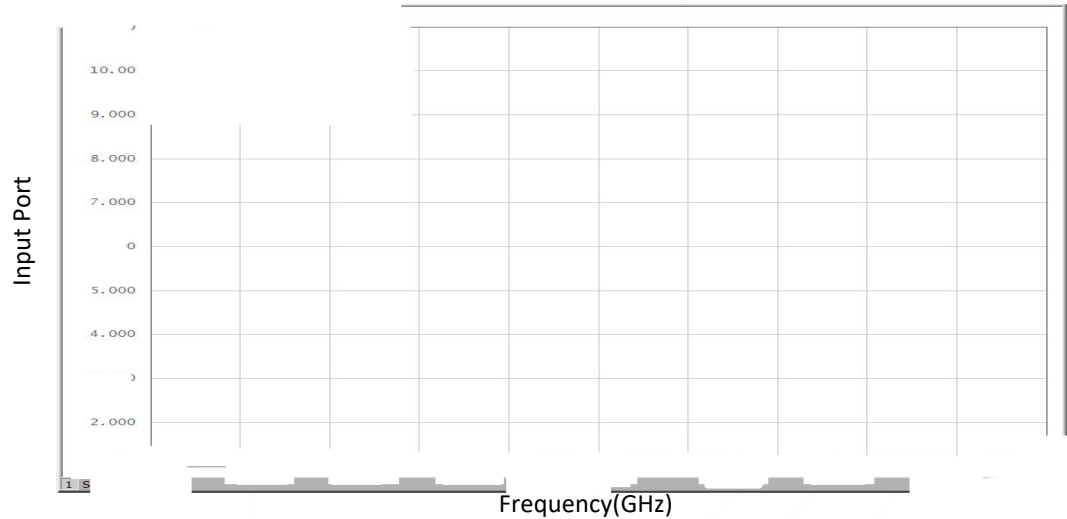


典型曲线 Typical Performance Data:

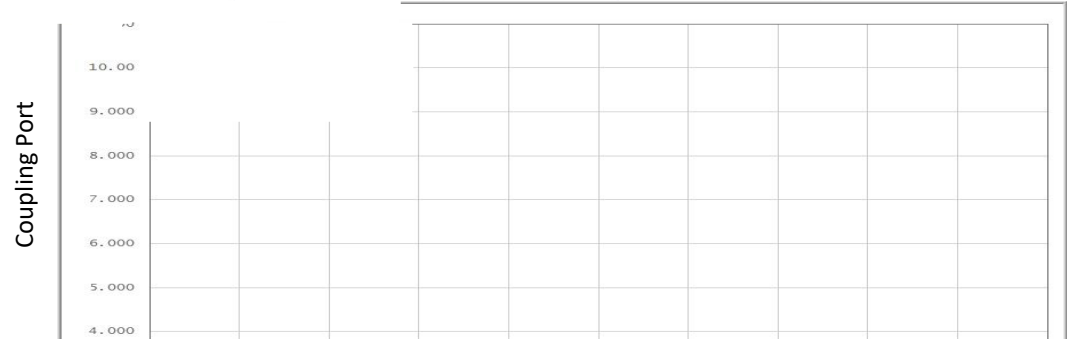
Transmission Phase vs Frequency



Input Port vs Frequency

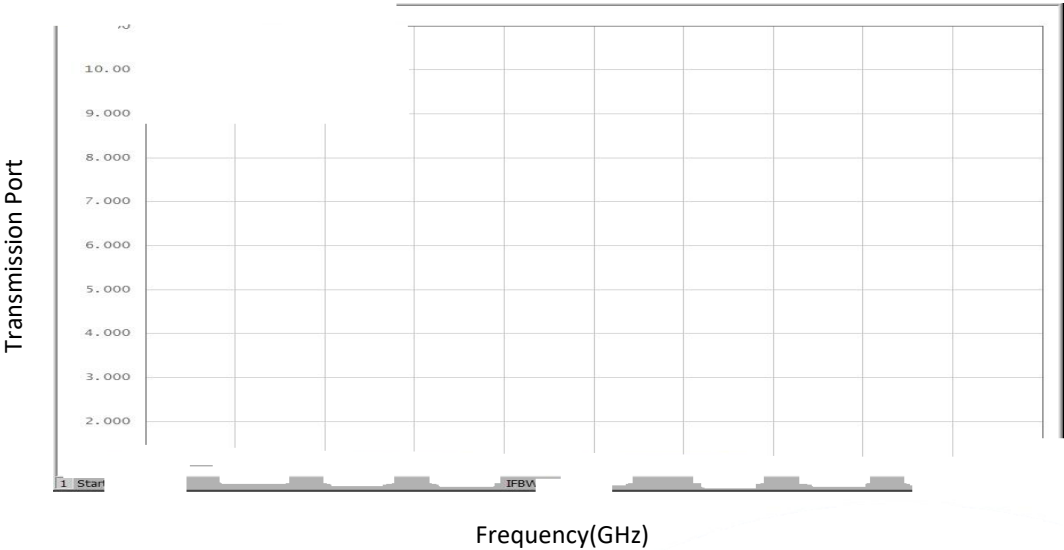


Coupling Port vs Frequency



典型曲线 Typical Performance Data:

Transmission Port vs Frequency



Isolation Port vs Frequency

